Wednesday, 5/16/2007 8:13:18 AM

Kim Johnston User

Process Sheet

Drawing Name

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

: 32374

Estimate Number

: 11058

P.O. Number This Issue

AL : 5/16/2007

Prsht Rev. First Issue

S.O. No.

: 28389

Previous Run Written By

Checked & Approved By

Comment

Added P/O : Est. C 02.11.26

Drawing Number

PURCHASED PARTS

Due Date

Part Number

: D28921 D2892 REV A

: 02.500 SUPPORT

Project Number

Drawing Revision

NW Material 6/5/2007

Qty:

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0

PURCHASING



Comment: PURCHASING

Issue P/0: _3795

Description: D6104-003

Material: 17-4 PH SS (AMS 5643 OR AISI 630) as per Dwg D6104

Material release note required. Blank size makes (2) D2891-1

2.0

D6104003

17-4 SS Roundbar 3.25"OD

c207/05/17



Comment: Qty.:

1.0000 Each(s)/Unit Total:

16.0000 Each(s)



3.0

PACKAGING 1

PACKAGING RESOURCE #1





Comment: PACKAGING RESOURCE #1

Recieive & Inspect for Transit Damage Ensure Material Release Note is attached

4.0 MORI SEIKI



MORI SEIKI CAC LATHE LARGE





Comment: MORI SEIKI LATHE

Turn blank for Haas as per Folio FA082

5.0

INSPECT ALL DIM TO DIM SHEET



Comment: INSPECT ALL DIM TO DIM SHEET



Dart	Aerospace	Ltd
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W/O:				WORK ORDER CHANGES						
DATE	STEP		PRO	В	′	Date Qty		Approval Chief Eng / Prod Mgr	Approval QC Inspector	
		<u>.</u>	· · ·							
ļ										
Part No:	n 3		PAR #:	Fault Category:	NCR: Y	es N	lo DQA		Date:	

QA: N/C Closed: ____ Date: ____

NCR:		W	WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section E	}	- Verification	Ammariai	6				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspecto				
1/04/13	40	#1 support. Dicumente a.										
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NOTE: Date & initial all entries

⊍ate: /vednesday, 5/10/2007 8:13:18 AIVI User: Kim Johnston **Process Sheet** Drawing Name: 02.500 SUPPORT Customer: CU-DAR001 Dart Helicopters Services Part Number: D28921 Job Number: 32374 Job Number: Seq. #: Machine Or Operation: Description: HAAS CNC VERTICAL MACHINING #1 6.0 HAAS1 Comment: HAAS Machine as per Folio FA082 Tumble & Deburr INSPECT PARTS AS THEY COME OFF MACHINE 7.0 QC2 Comment: INSPECT PARTS AS THEY COME OFF MACHINE SECOND CHECK 8.0 Comment: SECOND CHECK SPRAY PAINTING SPRAY PAINTING 9.0 P/0: 4102 C/07/07/05 @ Comment: SPRAY PAINTING -PRIME -PAINT DELFLEET BLUE -CLEAR DELFLEET INSPECT SPRAY PAINT 10.0 QC14 Comment: INSPECT SPRAY PAINT PACKAGING RESOURCE #1 11.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 12.0 QC21 Comment: FINAL INSPECTION/W/O RELEASE

Job Completion

•

DART AEROSPACE LTD	Work Order:	32374
Description: Ø2.500 Support	Part Number:	D2892-1
Inspection Dwg: D2892 Rev. A	·	Page 1 of 1

· · · · · · · · · · · · · · · · · · ·			ghted on inspe			ual Dimensi			
Dim	Min	Max	Go/No Go Gauge	5 * V	61 -	713	X4 /	Ву	Date
				Lath	e Section				
	2.524	2.529		9.524	S. 5.26	2.530	12,529		
В	3.702	3.722		5.703	3.710	2.709	2.710		
С	2.814	2.834		2.827	2.826	0.826	12.836		
D	0.718	0.738		,727	732	732	730		
E	0.090	0.110		095	.095	075	1098		
F	2.714	2.734		2,728	2.724	2,728	2.726		
Ğ	2.029	2.049		2.037	2-037	2.637	2.640		
Н	3.214	3.234		3.227	3.277	3.227	3.276		
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AG AG	0.240	0.193	D10700	1 250°			Q 350"	-	
AH AH	1.126	1.146		+ 1 1 2 3/1 1			11,20		
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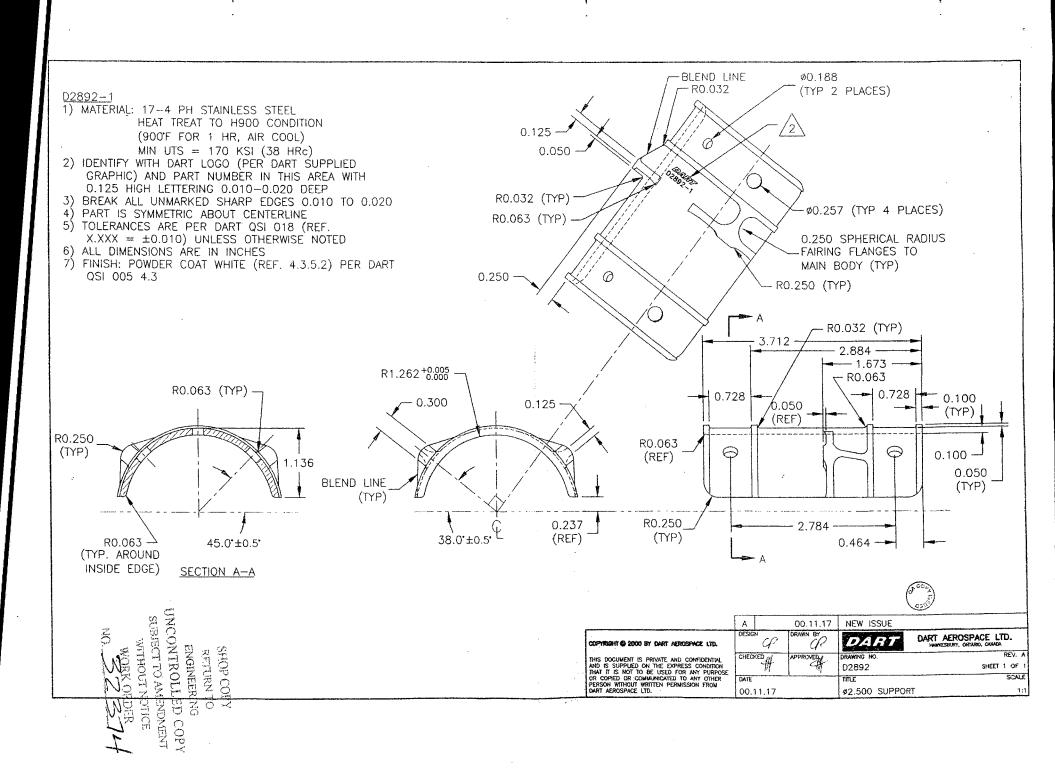
Rev	Date	Change		Approved
Α	02.12.12	New Issue	KJ/RF 4	4

DART AEROSPACE LTD	Work Order:	32314
Description: Ø2.500 Support	Part Number:	D2892-1
Inspection Dwg: D2892 Rev. A		Page 1 of 1

Inspect dimensions highlighted on inspection sheet drawing D2892 Rev. A/DSK077 Rev. A and record below:

				Re	corded Actu	ıal Dimensi	ons		
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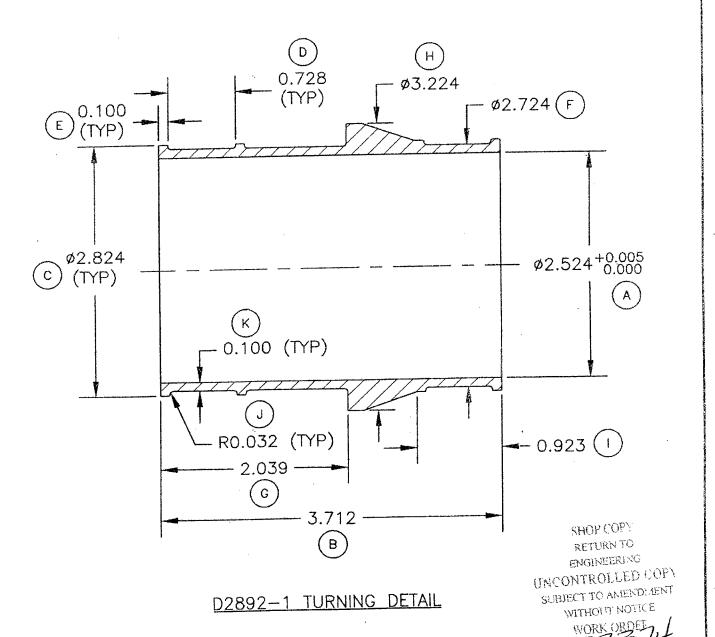
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CHECK	(ED	APPROVED	DRAWING NO. DSK 077 SHEE	REV. A
DATE	<u>ni · </u>		TITLE	SCALE
03.0	5.20		TURNING DETAIL FOR D2892-1	1:1
 ٨		03.05.20	NEW ISSUE	





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CERTIFICATE OF TEST SP 425, 50-A P.O. BOX 977 SYNACUSE NEW YORK 13201 TOUR DEPERTION 製力をように対してあっ A M CASTLE . 1110 A H CASTLE. INC DAY E 3400 H WOLF RD 3400 N WOLF RD PRANKLIN PARKS IL 60131 FRANKLIN FARKS IL LEIVE CHIPPED CLIETOMER REO. W CUSTOMER ORDER # 2 DAYE FROM DISTRICT STRALLIE B PARSUNS 01-23347 SILE DESCRIPTION OF MATERIAL 3.250 RD CRU 17-4FM RT A IAC 42470 0601 40-6364-MAR ashe-sassa-oaed tabo ANC 3174-10 BEV 7 UNS-SIPAGO ved Ista ANG-GEAGE (EX BUNFACE) CHEMICAL ANALYSIS MEAT NO. CH SI 1 J415 4 B. C. € 3484 4,04 15,20 と 装 葦 30 9 3 **A13364** , de 33 设置的 , O30 .68 , 034 CASTLE WETALS PP DATE REC'D 3/1/03 APPROVED BY MECHANICAL PROPERTIES HEAT NO. CUARTOY 民民意广西和东西东 E BERNARIN -TEMBLE PSI TUDICAPSI zelono4d Exit 350 iley & Alesa4 CAPABILITY FHYSICALS AFTER 900 DEG. F. - 1 HE. AIRCOOLS BHS SID 160.640 203,660 MACKO TEST OK FERRITE 3 X MAGNAFLUX F/8 = 0/0 AT TEMPERATURE -HATERIAL SOLUTION TREATED AT 1960 DEG. F. HELD 45 HINUTES AIRCOOLED: CRUCIBLE HATERIALS CORP. VENDOR \$18610. MATERIAL INGUT CAST. HAPTA - YES THANK YOU FOR SELECTING A OUGLITT PROBLE MATERIAL FREE FROM MERCURY CONTAMINATION AT TIME OF SHIPMENT HAMUFACTURED BY THE ENFLOYEES OF CRUCIBLE SPECIALLY RETALS THE ABOVE MATERIAL WAS MANUFACTURED AND YESTED IN ACCCE. NO WELD REPAIR PERFORMED WITH ABOVE SPECIFICATIONS AND IS IN CONFORMENCE VETTE MATERIAL MELTED IN U.S.A. SPECIFICATION RECUIREMENTS.
CRUCISLE MATERIALS CORPORATION SWORN TO AND SUBSCRIBED BEFORE ME THIS

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- O THE REPORDENC OF FALSE, FECTIONOG ON PRESENTATION STATEMENTS OR CHIRES ON THE REGIONAL NAV. SECTIONS OF A FELDRY EMPER SEPERAL EXCHANGE SEPERAL EXCLUSIVE PERSONS LAW, THE CO. CHIRES OF THE ST.
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- W MATERIAL IS HAMPAETURED PRES FROM MEMOURY, REDEUR, ALPHA AND GANNA BODRCE CONSIDERATED WINTERS BECHANN SHALL HOS BE REPRODUCED: EXCEPT EN PULL, NITHOUT FEE BRITTEN CONSENT.
 SE CARRENT SCHOOL OF COMPARATION.

PO. Box 2498 Hartsville, 95 29551 Tel: 843-335.7546 Fox: 843-335.6465

12/10/04 CUSTOMER / DESTELLER / CLIENT SELLER / VERKÄLDER / VENDEUD AGE

I OF

A.M. CASTLE & CO 3400 N WOLF RD FRANKLIN PARK ,: ,TL 60131

D BUSINESS I I IN B BOLLOI	秦 章43 <u>条</u>							
CHERCHER MADER OF LURESPELL-ME LAS DE COMMUNDE	CARPENICE NO. / WERKS - NR. / Nº DE REFERENCE INTERNE	STAD/NUTAG\STAC	METSM. NOT RECKLAND FOR					
01-28383-01	W67226	12/10/04						
PRODUCT DESCRIPTION: TYPE 17-4 SOLUTION ANNEALED ROUGH TURNED PRODUCT DESCRIPTION: TYPE 17-4 SOLUTION ANNEALED ROUGH TURNED PART NUMBER: TAC 42470 SPECIFICATION: CASTLE 3174-10 CAP OF COND. H900 REV. 5 (02/18/04) SPECIFICATION: CASTLE 3174-10 CAP OF COND. H900 REV. 5 (02/18/04) AMS 5643 REV Q (01/ /03) (UNS S17400) (AISI 630) ASTM-ASS4-04 ASME-SAS64 2001 EDITION								

3.250000 IN.(82.55 MM) RD SIZE

PRIMARY HEAT CHEMISTRY (WITE):

0.03	0 . 94	0.48	0. ^P	0.626	15.SI
* - *5 MI 0 - 0 3	MO 0.29		0.032	CB 0.25	0.31

CB+TA 0.26

THIS HEAT MEDIED BY THE ARC/AOD PROCESSES
NO WELD REPAIR.
MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE
CONTAMINATION.

DISCS MACROFICHED AND APPROVED

HARDNESS AS SHIPPED, HB

321

(MIDRADIUS)

MAGNETIC PERTICLET FREQUENCY = 0 / SEVERITY = 0

MICROSTRUCTURE - FERRITE

CASTLE METALS FO

SOLUTION ANNEALED 1900 F - 1 HOUR - RAPID COOL HOT REDUCTION RATIO; 8:1 MATERIAL WAS MELTED AND MANUFACTURED IN THE USA.

APPROVED 3

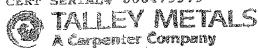
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CERTIFICAT DE CONTROLE

S YME ECCORDING ON PARSE, FICTICEGUS OR ERAGDULENT STATEMENTS ON ENVIRES ON TWEE COLUMNS HAP BE PURISHED AS A FELSNY UNDER PEDEIAL STATUTES INCLUDING FEDERAL LAW, TITLE 15. CHAPTER ST.

THE VALUES AND OTHER YEOMNICAL DAYS REPRESENT THE RESULTS OF ARRIVESS AND TEVE NACED ON CAMPAGE CRILECTED FROM THE YOURL LOT. BRIGINAL BAYA RECORDS GAM BE HAVED BY CEPTERINE TO THE CAMPAGE ORDER BUSINESS.

RATERIAL IS MANUFACTURED FREE FROM MERCURY, SADIUM, ALPRA AND CANNA SOURCE TEXTLE ATTER

S THES DOCUMENT SHALL NOT BE ECFRORACED, EXCEPT IN FULL, MITHOUT THE WATCHES DOCUMENT SHALL NOT BE ECFRORACED. EXCEPT IN FULL, MITHOUGH THE WATCHES DOCUMENTED.

Talley Metals Technology, Inc. 20. Box 2495 Haresvine, SC 20051—Tol. 848.335.7540—Fax. 843.335.6465

12/10/04 CUSTOMER / BESTELLER / GLIENT

SELLER / YERKAUFER / YENDEUR AGE 2 OF

A W. CASTLE & CO 3400 N WOLF RD FRANKLIN PARK /: , IL 60131

SWY. BRYE/GATOR/DATE **∮**welgan age betabe iii GARPENTER NO. / NEGRO-AR. / NO. ME ARPENERS ENTERNE CHETOMER ORDER SELVENDYSLE-NOLVAN DE CHENKREE 12/10/04 9153 W67226 01-28383-01

69723

HEAT NUMBER / SCHIMELZE NR / N° DE COULEE :

CAPABILITY

900 F(482 C), 01 HR

AIR COOL

YIELD STRENGTH (0.20 %) KSI(MPA) TENSILE STRENGTH, KSI(MPA) ELONGATION IN 2.00 , % REDUCTION OF AREA, K HARDNESS , HB

303:0 305:0(

(CONVERTED FROM TENSILE STRENGTH)

WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS.

TIMOTHY DUVALL OUALITY ASSURANCE REP. CARPENTER TECHNOLOGY CORPORATION

minerary Proper oder Zerielleigener von